AMERICAN BLIEFOADOLOUFINAL

# DRICAN RAILROAD JOURN

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# IRON MANUFACTURER'S AND MINING GAZETTE.

ESTABLISHED 1831.

PUBLISHED WEEKLY, AT No. 105 CHESTNUT STREET, PHILADELPHIA, AT FIVE DOLLARS A YEAR, IN ADVANCE. SATURDAY, JUNE 10, 1848. SECOND QUARTO SERIES, Vot. 1V., No 241 WHOLE No. 625, VOL. XXI

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culamen have, for a time at least ores to give their bye name-we have beard of

one watch occurred at a post-office, where a graile-

nau of good acidens inquired.-" Any letters for law.

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### AMERICAN RAILROAD JOURNAL.

PUBLISHED AT 105 CHESTNUT ST. PHILADELPHIA

Saturday, June 10, 1848.

It will be seen, by the following notice, that the cople of Hariford, Conn., and Providence, R. I. ave decided to have a railroad communication be tween those important points without much delay By a map of the Providence and Plainfield railroad, accompanying the report of Mr. James Laurie, in relation to that work-which is to be a part of the line from Hartford to Providence-it appears that from Willimantic, some miles east, it will follow the route of the proposed New York and Boston "air line" road, The construction of this road across the country will accommodate a large amount of business and travel, and add materially to the ess of the cities of Hartford and Providence; and it is a work worthy the attention of those seeking contracts appropriately of 13. 28 interiorated to worth

HARTFORD AND PROVIDENCE RAIL—
ROAD.—Notice to Contractors.—Sealed proposals will be received by the Directors of the Hartford and Providence Raikroad Company, at their office in the city of Hartford, near the Postoffice, until the 1st day of Juty, for the Grading, Piling, Masonry and Bridging of that portion of the road extending from the east bank of Connecticut River to Williamstic, about 29 miles.

The Maps, Profiles, Plans and Specifications will be ready for examination on and after the 26th day of June.

June.
The line will be divided into convenient sections, d proposals may be made for one or all the sections, or for the whole work except the superstructe.

EDWARD H. BROADHEAD.
Chief Engineer H. & P. R. R.
Engineer's Othes, Hartford, 2
May 27, 1848.

Office St. Lawrence & Atlantic Railroad C. Montreal, June 2d, 1848.

NOTICE TO CONTRACTORS.—SEALED Tenders, (directed under cover to the Secretary,) will be received at this office, until the 24th inst. for the Laying of the Superstructure upon the Mon-treal Division of the St. Lawrence and Atlantic Railroad, extending from the River St. Lawrence to the Village of St Hyacinthe, a distance of about Thirty

Miles.

Plans and Specifications will be ready for the inspection of Contractors, on the 15th of this month, and they are respectfully requested to make application to the resident engineer of said division (R. T. Bailey, Esq.,) for information in regard to the manner in which the work is to be performed.

No Tender will be considered unless accompanied by the names of two respectable sureties, personally known to the company or engineer, and, in all cases, undoubted security will be required.

The work must be commenced on the 1st July, or

undoubted security will be required.

The work must be commenced on the 1st July, or immediately after the contracts are closed, and completed by the 1st of October next.

THOMAS STEERS, Secretary.

### Pennsylvania and Ohio Canal.

We take pleasure in furnishing the following in-ormation respecting this work, the stock of which a held principally by our citizens: The entire line of canal is in fine order, the dam-

ages occasioned by the flood at the close of the navi-gation last fall having been remired in season for opening navigation at the earliest period.—The Ohio and Eric extension canals were opened in the

spring.

The amount of tolls received up to 91st May, 1847 and 1848.

At Youngstown in 1848.	
At Ravenna in 1848	1,925
Increase in 1848	2,348
At Akron to May 1, 1848	1,279
Increase in 1848	terr and besteritte and territories

Total increase in 1848, up to 21st May ..... 3,036

Total increase in 1848, up to 21st May..... 3,036

The following gentlemen have been elected directors for the ensuing year, viz:—
Leicester King, George Parsons, Francis Freeman, Jacob Perkins, of Warren, Ohlo; Seth Day, Ravenna; Charles T. Whippo, New Castle, Penn.; Robert Toland, Philiadelphia, Penn.—And the governor of Ohlo has appointed Thomas D. Webb, of Warren, and Cyrus Prentiss, of Ravenna, as directors on the part of the Butte.

We understand that it is the design of Leicester King, Eq., the president, to resign his seat in the board, and it is probable that Thomas D. Webb will be his successor.—Prans. Ing.

for Information to the war housest, etc. This timete la mede de the supposition of a mond 2100

enterns a widing the Atlantic from the valley of

essinoi, ret it is ne veribeless true, and we think

be no best adon about making the ad-

Cleveland and Pittsburg Rathroad.

We learn from a letter dated Ravenna, Ohio, May 25th, 1848, that "the work on this line is going forward rapidly, more than one-half is tinder contract, and twenty-five miles more is now being located from Hudson to Cleveland. The whole route has now been surveyed and found to be very cheap of construction. The whole length of the road is 97 miles from the river to the lakes, passing through a rich and thickly populated country, and passes in exhaustible beds of bituminous coals. The friends of the road have entire confidence in its paying dividends equal to any road west of the mountains."

And so have we confidence in the entire success

And so have we confidence in the entire success of the road, when completed, which we hope may be the case at an early day .- [ED. R. R. J.]

# Nashville and Chattaneoga Rattread. The surveys of the Nashville and Chattaneoga

railroad are, we understand, progressing rapidly and a considerable portion of the road will probably be prepared for contract by an early day in July. The work to be first let is that passing over the Cum berland mountain, consisting of one tunnel, and much heavy work-offering strong inducements to co tractors of skill and experience. The country healthy, and provisions are cheap and abundant.

The work is 152 miles in length, connecting Chattanooga, on the Tennessee river, with the Wetern and Atlantic railroad of the State of Georgi This road is 139 miles in length, (of which 39 mil are unfinished, but under contract,) extends to Atlanta in Georgia. This place is connected with the Atlantic coast at two points. The Georgia railroad 171 miles long, extending to Aususta, and the Sci Carolina railroad, 136 miles, thence to Charleston forms one line; and the Macon and Western rail road, 101 miles, and the Central railroad, 192 miles form another line passing through Maconto Savan nah. Thus the Nashville and Chattanooga resiroa will be finished under peculiar advantages, baving 738 miles of finished road, leading through Georgia and South Carolina, and thus connecting it with and South Carolina, and thus connecting it, with market. The country traversed by this road is one of vast mineral and agricultural wealth, filled with a hardy, industrious and intelligent population. Its resources, though undeveloped, for want of easy access to a market, are truly gigantie. A large proportion of its lands, of inexhaustible fertility, lie uncultivated, and its coal and iron still slumber in their native beds.

With the local trade of such a country, ac ne great commerce to be expected at its fermion the Cumberland as Nashville—which is inde-

vork was surveyed in 1846, under the direct n of J. Edgar Thomson; Esq., who estimated the 00 for locomotives, cars, warehouses, etc. timate is made on the supposition of a tunnel 2100 et in length, and about six miles of graduation so trains. An addition of \$300,000 to the cost of this road, would secure a maximum grade of 42 feet per mile on the entire route. This seems almost incre dible, when it is remembered that it crosses all the mountains dividing the Atlantic from the valley of Mississippi, yet it is nevertheless true, and we think be no hesitation about making the adlitional outlay at first, as it will have to be made one if not now a

shville itself is a beautiful and flourishing city, which has increased, and is increasing with truly western rapidity. It bids fair to be a large and very important city; and a central point for an immense mportant city; and a central point for an incommendation the now nusiness yet to be created by railroads from the now nucleus of the number of

But a few years will pass before a railroad will constructed from Nashville to the Mississippi and other roads intersecting it from he north and from the south-thus opening up all hat region, and bringing it within three days of the Atlantic, and not much more distant from New Oreans. When this shall be accomplished, who can estimate the rapid growth and prosperity of the State

Furnaces, and the Iron Manufacture. We published in No. 19, or May 20th, of the Journal, a call upon those engaged in the manufacture of iron, or in charge of iron works, for the dimensos, and average yield, of their furnaces. In that accidentally omitted one important item, viz: interested in the manufacture of iron, and upon those having the information, that we may be able

to publish it. We also give, in this number, a communication rom WM. FIRMSTONE, Esq., of the "Glendon Iron Works," at Eason, Pa., in reply to that call, which will show the convenience and utility of the information asked for-and desire to express our thanks to the writer for the favor,

" It has been suggested to us by a practical iron master, that it would be useful to those engaged in the business, and interesting to others, if those in charge of furnaces, in different parts of the country, will answer the following questions for publication in the Journal, viz:

- Height of each furnace The state of the
- Diameter of boshes ?
- "Diameter of the tunnel head ?
- " Capacity of furnace 1."

- - "Number of cubic feet of blast per minute?
- "Number of pounds pressure of blast?
- "Temperature in degrees of Fahrenheit?"
  Number of tons iron made—average per week
- "Kind of ore and fuel used, and average quantity

of each required to make a ton of iron?

"We shall be very much obliged to them if they will furnish us with these, and bther facts, in relation to the business, for the benefit of those interested in lts prosperity. Letters with this, and similar information need not be post paid."

GERNSON IRON WORKS, Easton, Pa., May 26th, 1848.

ar Sir: I send you a statement of the six nake of the Glendon Furnaces, as you request,

I noticed in your Journal of 22d April, an article, stating that a furnace of 10 feet bosh averages about 93 tons per week; 12 feet, 126 tons; 18 feet, 150 tons and that the 12 feet bosh seemed to yield, in proportion to it size, 15 tons per week more than the 10 feet; and the 10 feet, 17 tons more than the 18 feet. This may have been so in the particular case alluded to: but I conceive that the system of comparison adopted was the common one, which is founded in error, viz: estimating by the area of the furnace, immediately at the boshes, without regard to the siz at tunnel head, Now, "to state an extreme case," two furnaces of equal height may be, one 10 feet at the boshes, the other 12 feet; the 12 feet furnace 10 feet at the tunnel head, the 10 feet furnace 12 feet. and they will each have the same capacity, and make about the same quantity of iron, if equally well handled.

You will perceive that the Glendon furnaces, re pectively 10 and 12 ft. bosh, make iron very nearly in proportion to their inside capacity in cubic feet, and to the quantity of blast admitted at the tuyeres. the "dimensions of the tunnel head"—and therefore It has now become so common to make furnaces we now republish it, and renew the call upon those cylindrical, from the boshes to within a few feet of the tunnel head, that a furnace 12 ft. bosh nominally, is more than equal in capacity to a 14 feet bosh, on the old conical plan. According to my observation and experience, the capability of a furnace to make iron in quantity, does not depend at all on the size at the boshes, " in itself," but on the total space included within the inside lining walls, and this probable irrespective of height. No. 1 furnace, 39 feet high, works equally well with No. 2 furnace, 45 feet high. The most proper height of anthracite furnace diversity of opinion prevails on the subject. Fur naces vary in height from 30 up to 50 feet.

From all I have seen and heard, I think it proba ble that a furnace 40 feet high, with a given capa-city, will make more from than one of greater height with same capacity; but we lack authentic information on the subject for comparison.

... Respectfullyof qu All WM. Finnerowe.

Height of turbace.	Diameter at foot of boshes.  Diameter at tunnel bead.	Height of furnace, from foot of boshes to tunnel head at filling plate.	No. of nozzles used.  Daniel' of nozzles  Pressure of blast.  Temperature of	Cabic feet of blast used per minge. Tops of iron made per week, average. Capasity of turnace for stock.	The second secon
No. 1 39 10 No. 9 45 19	ft. ft. 6 8 61 8	n. ft. 33 3 39 7	ia lb deg 3 34 600 8 34 600	2 5 87 2950 6 2 8 120 4300 7	Anth-Average from let January cost, to 1st April, 3 more

app rently radical de ct in the organical or of faculties—the very great difficulty of applying the name to faces perfectly familiar. So great, indeed is the difficulty, that we have, at times, not been able to call the name of a gentleman with whom we had been accustomed to meet almost daily, for more than a year; yet we have seldom found it difficult to recollect—though there may have been times, and places, when and where, we would rather not have given—our own name. There have been cases, however, we believe, in which very worthy gentlemen have, for a time at least, lost the power to give their own name-we have heard of one which occurred at a post-office, where a gentleman of good address inquired-" Any letters for me, sir ?" "What name, sir ?" said the delivery clerk. "What name I ah, yes my name is \_\_\_\_ is upon my word I cannot recollect just now, sir, I will call again,"-and away he walked musing to himself," my name is --- well, now, this is singu-lar"-until he was met by an acquaintance who ell, now, this is singu lar"—until he was met by an acquaintance who addressed him, "Good morning Mr. B.—; how are you now." That's it, that's it—yes B.—, that is my name," and he returned to the post-office and got his letters. It is not, however, in this instance, as easy for us to solve the difficulty uncer which we labor, as it was with the gentleman at the post-office; as the gentleman, who has apparently forgotten his own name, when writing to us, to send him the Journal, including a bound volume, and a receipt for a ten dollar bill enclosed in his letter, is not within two hundred miles of us, and we have no other way, that now occurs to us, to remind him of the important omission in his letter, than to address him by the appellation of "the man who forgot to give his name," and send the Journal, as directed, which by the appellation of "the man who forgot to give his name," and send the Journal, as directed, which we have done. We cannot however, close this allusion to our embarrassment without giving him our hearty thanks for his remittance, and to acknowledge, with pleasure, that he did not forget to pay the "fip," to uncle Sam, for the safe delivery of his letter, and remittance—a courtesy which we, ourselves, have not been always as precise, as we ought to have been, to observe.

### Charlotte and South Carolina Railroad .-- Its Connections Northward and Southward. We understand from the most reliable source, that

the grading of this road from its southern termions. (Columbia, S. C.,) to Chesterville, S. C., 63 miles, has been let, and that 25 miles more will be let by 4th of July next, leaving but 20 miles to be let. The northern terminus of this road is at Charlette, N. C., the position of the U.S. mint, and it was, we are informed, confidently believed that the railroad convention, which was to assemble at Satisbury, N. C. does not appear to be yet settled, and a good deal of on the 6th instant, would take measures to obtain a charter for a road from Charlotte, N. C., to Danville, Va., which will effect a connected line of railroad from Columbia, S. C., to Richmond city, Va, as we understand that the railroad from Danville to

Richmond is now in progress.

Looking southward, the lines of railroad are already in operation from Columbia, S. C., to Other. longa, Ga., near the Tennessee. A railroad ha been chartered from Atlanta to La Grange, in Ga -from La Grange to West Point, on the Chattah chee, (near the Georgia and Alabama line,) is only 15 miles, a short link which will be soon made by private enterprise. The distance from West Point to Montgomery, the capital of Alabama, is 89 miles, of which 67 miles, from Montgomery to Opelacc are finished and in operation. From Montgome to Pensacola, 1564 miles, a line is chartered, at will probably be built at no distant day, thus we s in prospective a continuous line of railroad fro

acola through the most densely popu

A line connecting Columbus with the Macon and Western road, has also been chartered, and one from Macon to Fort Gaines is now, we believe, in course of construction, which also looks to Pensacola as a terminus. When these various lines, tocola as a terminus. When these various lines, gether with the line to Naskville, shall have be ted, then we may anticipate a prosperous bue for the line here indicated, as well as the low er line through Wilmington, for they must complete that line in self-defence if this line is made—and then we shall see the south and the north connected with bonds of iron, well calculated to make the people of the different sections know and appreciate each other more correctly. A few years only—less than ten— will accomplish all these, and many other lines in those States, increasing the amount of business and value of property in the south to an astonishing extent.

Hallwey Traffic.

The following report of railway traffic for the week ending about the 20th April, shows a large increase of mileage during the last year, and a very considerable reduction in the per mile earlings. It does not follow, however, that there has been so great falling off on the old lines, or where the traffic and been developed, but it arises mainly from bringing into use so large a proportion of the whole mileage, upon which a comparatively small traffic has yet been drawn out. Nor will the dividends be proportionally reduced, as a large proportion of the recently finished lines has been completed at a greatly reduced cost. The Chronicle says:-

"From our official returns, it appears that the amount of traffic for the last week on 3,663 miles of railway, was £175,472, thus accounted for:—£86, 385 for the conveyance of passengers only, £44,942 for the carriage of goods, and a remainder of £44,-145 for passengers and goods together, not respect ively apportioned; being an increase of £14,530 over the corresponding week of last year, when the mileage was 2,819. The average earnings per mile last week were £48, whilst in 1847 they were £57.

orking Expenses on Railways.

We find the following comparative statement ways, in a report of a committee raised by the Lon don, Brighton, and South Coast railway company made on the 13th of April last. The doties of this committee were various, but this does not appear to have been included, yet they say:-

In connexion with this subject, the committee amined into the state of the plant, and ascertained it the company's stock of engines, carriages, trucks, d wagons, including those contracted for, which man item in the statement of flabilities, will be man item in the statement of flabilities, will be

present number of engines is 37, of which 67 are in sound working order, 18 are under repair and alterations, and 18 are to be repaired and altered. The new engines, being of greatly increased power, will replace some of the present stock, which will be disposed of, and there will consequently be a considerable reduction in the above item. If the plant, when so completed, be fairly kept up, there will be no occasion for further outlay of capital under this head. The committee have taken into consideration the office filled by Mr. P. Clarke, and fully admitting his abilities and knowledge of railway business, they are, nevertheless, of opinion that there should be an efficient head of each department, who should be immediately responsible to the directors; and that it is undesirable that any one servant should interfere with the management of every other department, thereby destroying the responsibility of the officers so interfered with, and impairing the efficiency of the board itself. The Lewe station is an illustration of this mischief arising from such interference. This station, as originally designed, would have been parallel to the main time, which is obviously the proper position; but Mr. Clarke was permitted to take the matter out of the hands of the engineer, and to build the station on its present inconvenient site, and that; too, at a cost far beyond the original estimate."

Possibly other companies may find it for their interest to adopt the last suggestion of the committee, and not lay too much responsibility upon, or require too much labor of those charged with the management of their affairs.

ecomotive Engines .-- Rogers, Ketchun When on a visit to New York last week, we

made a short visit to Patterson, and while there spent a couple of hours in passing through the dif-

told that he was in one of the shops, and after a little or at least will last far longer. The method after time we found him mounted on the fore part of an which I build, and compose the said sleepers is as immense 10 wheel locomotive—weighing 24 tons, follows, viz: premises given us, we strolled first through the main der of caustic lime. This done, I scratch or the working expenses on traffic on four English rail- progress of construction, and one only vacant stand, ing only a thin coating on the wood.

to the conclusion that, in labor-saving machinery this establishment is in no way behind its competitors, either in this city or in Boston; yet we thought pound add, always stirring and turning the n of one beautifully operating impression and full, or property of have, viz: "Kirk's steam kammer," for before mentioned heated gravel, and fill, or property to have, viz: "Kirk's steam kammer," for before mentioned heated gravel, and fill, or property to have been property from the former are placed. The moulds motive acle and frame down to a cotton spindle—which the frames are placed. The moulds me and almost to a darning needle. They would, we be well heated with clay, and fine ashes affect or are quite sure, find it an improvement upon their it to prevent the adhering of the compound to talk hammer—a very good one though it be.

" Big Loud .- The engine named 'Licking by Messis, Rogers, Ketrirum, & Grosserson, N. J., for the Mansfield and S railroad company, came in yesterday with a tr about 650 feet long, of 51 loaded cars; the of which (ears and freight,) was about 380 ion Adding engine and tender, with wood and wate which she drew up 16 feet grades, with 110 pouns of steam, with perfect case. This engine was but expressly to order, has single drivers, six fe diameter, placed behind the fire box? H tion is less complicated than other engines of h class, and can make great speed if required, an never fails to make a requisite supply of season She has been in service about one year. In oil and repairs her expense is about one-half less than the of our double driver engines."

Railway Sleepers Improved.
We find, in the Artizan for May, a description of Mr. Fred. Busse's invention for making railwa sleepers. We give a short extract from the description, as follows, viz:

"My sleepers," says the patentee, "are manu tured by hand, just on the spot where they are to be wanted. I have east sleepers according to my invention, 8 feet long, 14 inches broad at the base, at an outlay of less than one Prussian dollar, (three shillings sterling;) the piece.

"The principle of my invention is to enclose spent a couple of hours in passing through the dis-ferent shops of Messrs Rogers, Ketchum, & Gros-frame of entirely dry wood, air tight, in a substance which is not affected by the influences of wet and On inquiring at the office for Mr. Rogers, who air, it being the result of experience that under such has the principal direction of the business, we were circumstances the wood will not be destroyed at all,

built for the New York and Erie railroad—superin-tending the fitting of the valves to the cylinders. So degree by artificial heat in a stove. Immediately intent was he upon the important and delicate job after drying, I dip those pieces in a boiling of ten in hand that we deemed it improper to disturb him, pounds of brimstone, one hundred pounds of each and therefore availing ourself of the range of the tar, to which I add eighty pounds of very fine powlocomotive shop, where we found eight engines in off with a knife the superfluous compound, leav-Of those in progress two were nearly completed, wood thus prepared are brought anywhere along the viz:—one six wheel engine, with six feet drivers—time of railway where coarse gravel is to be found; a beautiful machine—for the Mansfield and Sandusky, Ohio, railroad—and a ten wheel engine, with latter is the best, having less earthy matter. The six fire foot drivers. This is one of the largest class, and most beautiful engines ever built in this counter.—the latter to an inch in diameter—ought to "The committee have thought it their duty to inquire minutely into the working expenses, and to institute a comparison between those of the Brighton time for the last year are ending the 31st of December, 1847. The working expenses of the Brighton time for the last year are certainly much above the average; but even these do not greatly exceed the averages of the Bouth western, and Eastern Counties lines for the three years, and the general average of the Brighton will be found much less than those of the Iwo lines just mentioned, although not so low as that of the South Rastern, as will be seen in the following table:

Per centage of Working Expenses on Trafic.

The contribute a comparison between those of the day of the south of the s try, and being of all footgange, filete is ample from the threa, or rather heaten, sering used. The woodto arrange its machinety without crowding it.

Two or three others were far advanced towards conical iron, or wooden movid—the latter is to be
completion, while others were in different stages of preferred—which is to be filled up, with the comtation of the engines from this manufactory are sleepers. I melt ten pounds of brimstone, add sesecond to none made in the country.

After looking through the different shops, we came
to the conclusion that, in labor-saving machinery well dried, fresh burnt caustic lime, sleeked in the air, or with a little water: " To this of one beautifully operating implement which they over a gentle fire, ten or twelve cubic feet of that before mentioned heated gravel, and fill, or rather e, find it an improvement upon their it to prevent the adhering of the compound to the very good one though it be.

This is the process of making the eleeper—which seys will weigh about four hundred pounds when one. It may be a very good eleeper, but it will be und expensive and difficult to handle.

We have occasionally given the report of this superty, by way of illustrating the advantages of illustrating the factors. ng people, and their profit to the shareholders, in properly managed to accommodate the masses sasonable rates. Here is a road of about seven Here is a road of about seven in length, from Dublin to Kingstown and Dal-which is managed especially to accommodate which is managed especially as well as those shoring portion of the people, as well as those in Dublin the have leisure. Hundreds who labor in Dublin e at Kingstown, or along the line of the road, and fiving in the city are often employed out of it and the trains are so arranged as to accommodate low rates of fare.

So might it be in the vicinity of New York and Philadelphia, if the companies would devise plans by which little settlements would be formed along he line, and a certain and cheap means of reaching em established. The report is as follows, viz:

The sixteenth annual meeting of the above railway company was held on Saturday, April 15th.
Joseph Kincaid, Esq., having taken the chrir,
Mr. Pim read the following report of the directors.
"In pursuance of the declared intentions of the
board, in their report to the last half-yearly general
meeting, they now submit a statement of accounts
for the 13 months ending the 29th February, together
with the usual statistical returns.

noer of passengers booked at all the crease .....timated trips by subscribers ..... 86,468

645,964 635,260 Last year.... Gross number of passengers, subscribers
included 9,228,146 

eriptions received .....£7,984 Lust year ..... 7,901 0 10 

...£2,312 17 0 Classification of passengers for the last seven years, in-cluding subscr'bers.

Third General of First Beeond Third class class steal.
37,001 . 840,116 . 754,968 . 1,532,085
. 68,156 . 960,936 . 729,788 . 1,758,978
. 98,076 . 1,047,266 . 814,733 . 1,962,016
. 104,109 . 1,219,856 . 910,768 . 2,234,333
. 141,911 . 1,235,524 . 913,178 . 2,348,613
. 152,389 . 1,304,798 . 846,723 . 2,303,910
. 164,666 . 1,260,081 . 783,399 . 2,228,146

1845. 1845. 1847. 1848.

Trains dispatched. 30,745. 30,970. 32,479. 32,096.

Miles travelled. 184,470. 185,820. 194,874. 192,570.

Av. cosches pr train 7511. 7550. 7.383. 6.990.

Av. passengers, do. 72,676. 75.830. 70.935. 69.433.

stown line, (including all 

own and Dalkey line (all charges)...

greater sum that has been received in any previous one.

"There is, however, one source of large expenditure which is not within the control of the board the rates and taxes during the past year have been £2,643, being £1,540 more than the previous year. This increase, added to the deficiency of income, amounts to £3,852, being more than 1½ per cent, on the paid up capital.

"The Dalkey line has been worked with great regularity; the working expenses have been considerably reduced.

"The Waterford, Wexford, Wicklow and Dublin railway company have brought a bill into par-

lin railway company have brought a bill into par-liament, to legalize and confirm the amicable ar-rangements with them, reported to you at last half-

rangements with them, reported to you at last half-yearly meeting.

"The balance of the profit and loss account, ap-plicable to dividends, is £7,488 5s. 7d.: and the board declares a dividend for the half year of £3 per cent. on the paid up capital of £245,000, amounting to £7,350, which will be payable on and after the 1st May."

[From the Philadelphia "Commercial List."]

Pennsylvania Coal Trade for 1848.

From the Lehigh Mines.

The amount of coal shipped from the Lehigh mines during the week ending the 30th May, and since the opening of the navigation, has been as follows:

name beating at 4 but in	This week. Total this
and the late of the date of the late, as a late	tons. year-tons
By Lehigh company	7,459 05 44,571 1
By Room Run	
By Hazleton	3,160 00 18,336 0
By Beaver Meadow	*2,950 00 . 17,184 0
By Spring Mountain	1,662 1112,663 1
By Buck Mountain	
SECTION SERVICE TRANSPORT AND	One vende and the common of

The amount shipped last week should have been 2,050 tons, and not 1,050, as printed.

From the Schuylkill Mines.

The amount of coal forwarded by Reading rail-road during the week ending the 1st iust., and since the 1st of January, has been as follows—

Pennsylvania Ratiroad.
The Pittaburg Gazette of 1st inst. gives the proceedings of a convention of delegates from the different districts, composing the county of Allegheny, held at Pittsburg on the 31st ult., in relation to the Pennsylvania railroad.

Pennsylvania railroad.

It says, "the meeting was called to order by Geo.
Darsie, Esq., who nominated for president the Hon.
Judge Grier. The following gentlemen were named as vice presidents—Samuel Jones, Esq., of Pittsburg, and R. H. Porter, of East Deer; with Jesse Carothers and — Meades, as secretaries.

"The following letter, from S. V. Merrick, Esq., president of the Pennsylvania railroad company, was presented to the chairman of the convention, by Judge Wilkins, and read by the secretary:

Judge Wilkins, and read by the secretary:

To the President of the Railroad Convention of Allegeny County.

"Six—in transmitting to you the inclosed resolutions of the directors of the Pennsylvania railroad company, in which I am authorized to assure the commissioners of the county of Allegheny that the supplement to their act of incorporation, approved 27th of March, 1848, has been duly accepted by the stockholders of that company, and that under its provisions, the six per cent, bonds of the county of Allegheny will be accepted in payment of stock subscribed by them; and that an interest of 5 per cent, per annum will be paid to all stockholders, until the road is completed. It may not be improper in me—and may be satisfactory to the convention—briefly to state the intentions of the board in case a subscription of twenty thousand shares is made by the county commissioners, under the sanction of the convention. obvention.

"When the Pennsylvania railroad was projected, it was conceived by its friends to be too large an undertaking to be completed by individual means, and at the same time that it partook so much of the character of a great public work, as to warrant assistance from the common furd. In this view, the city of Philadelphia, in its corporate capacity, determined to lend its aid, and subscribed twenty thousand shares, to take effect when a similar amount was had from other sources; and authorized an additional subscription of twenty thousand shares, whenever a further subscription to that extent should be made in aid of the work.

"The original amount, now reaching thirty-two thousand shares, has been devoted exclusively to the road on the eastern side of the Allegheny, and which, with the funds daily being added by private subscription, will, in ample time, be adequate to the object.

"At that time, the policy of the board was to complete the eastern section, in connection will the State railroads, so as to form a continuous line, with as little delay, and to as great an extent as possible, and await the effect produced upon public opinion, by the success of that portion, before soliciting funds for its continuance west—having early determined to incur no debt, but build the road upon its legitimate receipts from stockholders.

"The directors were Induced to this determina-When the Pennsylvania railroad was projected

abandoned. Our neighboring States had determined to act, and secure the trade of the west; and if we rould not be beaten, we must at once take hold of the work in hand, and urge it to a successful termination-thus defeating all competition. The importance of internal improvements was strongly hown, he said, by the growth of the city of Buffalo. That beautiful city, the equal of Pittsburg in population, in 1812 had not an existence; yet she was now a monument to testify to the benefits of internal improvements. Indeed, so important was internal improvements, that he would say, that next to Christianity and education, nothing was so essential to the development and success of a country as the adoption of the system of internal improvements. He then went on to show the advantages of position and distances the central route possessed, and showed most clearly that it was not a question of enter prise, but rather of self-defence. Virginia, Mary-land, and New York, were at work, and did we not move now, we should hear on the north and south the puff of the steam horse scoffing at our stand-still policy, and reminding us that others had reaped the harvest offered us, and which we lacked the enterse to grasp, when presented. The remarks of Judge Wilkins were frequently interrupted by indisposition, which increased so rapidly that he was obliged to desist. Before he closed, however, he made some remarks to his friends from the country, who, he thought, were under a misapprehension in regard to the effect of this county subscription. He most earnestly and honestly assured them, that in

most carnestly and honestly assured them, that in no event would a tax be called for; and that their true interests required and demanded the subscription. He had prepared a series of resolutions, but was unable to read them; but James S. Craft, Esq. proceeded to read the following for him:

"Resolved, That the commissioners of the county of Allegheny, in the commonwealth of Pennsylvania, be advised and requested to subscribe twenty thousand shares to the capital stock of the Pennsylvania, be advised and requested to subscribe twenty thousand shares to the capital stock of the Pennsylvania and the bond of thirty years; and in such sums as may be agreed upon by the said county commissioners and the bond of directors of the said railroad company.

"Resilved, That for the further security and safe ty of the said county of the commissioners and the bond of directors of the said railroad company.

"Resilved, That for the further security and safe ty of the said county to the pressure and in the bond holders, and in addition to the legal obligations in curred in making said subscription, the sock as on the said railroad company, because the said county of the legal obligations in curred in making said subscription, the sock as on the said railroad company, the said county to the legal obligations in curred in making said subscription, the sock as on the said railroad company, the said county of the said county to the legal obligations in curred in making said subscription, the sock as on the said railroad company, the said county to the legal obligations in curred in making said subscription, the sock as on the said railroad company, the said county conditions are said to the said county conditions and the bond of directors of the said railroad company, and the said railroad company, the said county conditions are the said railroad company that the said railroad company to the said county conditions are the said railroad company to the said county conditions of the said county conditions are the said railroad company

anbectiplion, in which I stated—'That the million of the interest and final redemption of the said bonds; saberibed would, under the provisions of the ordinance, (already passed,) draw another million from the treasury of the city of Philadelphia; and these two millions shall be exclusively devoted to the western division, which will be urged as fast as the nature of the country will admit.

"The motive, therefore, for your subscription, as to secure to the country of Alleghany the whole western allroad trade, by enabling the board to finish this end of the line in a period so short as to dely competition; and to this end the whole of your subscription, and an equal amount from the city of Philadelphia, is distinctly pledged by the directors.

"You will permit me to hope that the prompt action of the convention will enable them to secure this great object, and place the company in a position which will warrant an immediate call upon private subscriptions to fill up the stock to the ultimate limits required for the completion of the road.

"I am, with great respect,

"S. V. Marsick, President of Pa.

Railroad Company.

"After the credentials of the delegates had been received, Judge Wilkins addressed the convention in a very forcible speech. He contended that the day had come when the stand-still policy must be abandoned. Our neighboring States had determined with the community of the said railroad company in the construction of this road from private subscriptions to fill up the stock to the ultimate limits required for the completion of the road.

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"A motion was made to adjourn, but not carried W. W. Irwin moved to vote upon the resolutions at once, without an adjournment, as members were anxious to go home.

"The motion was renewed, but not agreed to, in asmuch as Judge Wilkins requested George Darsie Esq., to read some statistics, with which he propos to close his remarks. When he had concluded, Judge Wilkins resumed his remarks, and in the strongest manner again assured the convention that the interests of the county could alone be saved by prompt aid to the road.

"Before the vote was taken upon the resolutions, Mr. Gibson requested leave to submit a resolution. Leave having been granted, he presented a resolution making a two-thirds vote necessary to sanction he resolution of Judge Wilkins. The design of the movement was to kill the whole question, and the convention retused to receive the resolution. The ayes and nays were then called upon the reso lutions, which were adopted, 50 to 38.

"A series of resolutions were offered by a mem ber, approving of the Connellsville route, which were adopted without dissent.

"The proceedings of the meeting were directed to be published in all the papers of the county, and the meeting adjourned."

That there should have been opposition to this measure we are not at all surprised, as there were strenuous efforts made, by some of the wise and lib eral ones of this city-when it was asked to sub scribe to the same noble work-to defeat the mea

no doubt very sincere, but the majority is large, a we believe the conclusion arrived at in accordan with the best judgment of the large body of tax pages in the county. We believe, too, that time we demonstrate not only the utility of the work, but it all opposition to it will be removed in the great go it will conter upon all classes and conditions of p ple. Under any circumstances the subscript necessary to the business welfare of the cour three years will convince every man of bus the city, and every farmer of the boroughs an ships, that the county has acted most judiciously is the aid now promised. We do not look for any in crease of taxes in consequence of the subscription nor for any depreciation of public credit, or for any of the evile predicted.
"We feel that if Pittsburg would not be a

from the world, that she should put her hand to the plough, and with an eye single to her future welfare hasten to complete the road east, and to begin a once the prosecution of a western road. Both are a necessary to us as our coal beds, or the water in it rivers bordering upon our city. New York is seek-ing an avenue west, and so is Maryland and Virgi-nia. It does not, therefore, become us to deliberate when others act. Our exertions, until this h have been neither of gold, or silver, nor lands, nor labor, but words—empty breath—idle declamation We have showered down our anathemas upo another, and headed each other long enough. timore was the spring fever of 1847. Ohio was the summer fever of the year past, and in 1848 some thing has been done by the county to unite the west with the east, Now let our citizens off coats fo working season to unite us with the west B roads may be prosecuted at once, and both should be commenced forthwith."

These are the words of true wisdom and sterling patriotism.

### Camden and Amboy Railroad.

Ils Privileges and its Abuses.

We continue our extracts from the pamphlet of " citizen of Burlington," commencing with his seventh letter, dated 3d March, in which he refers to the importance to New Jersey of the peach trade, and the difficulty of getting them to market by this road, a prices, and in time to send them by the eastern eve ing steamboats to the numerous markets in New England. It the people of New Jersey saw the dis-advantages under which they labor in consequence of having granted this monopoly, they would take active measures to get rid of it, even it they had to purchase back the privileges, at almost any price, granted to a company for a mere "mess of poulage.

consumption of the north would now be hundreds of thousands of baskets, specifity to rise to militorist and hundreds of thousands of acres of Jersey land that are now waste, would be in progress towards becoming flourishing orchards, yielding large revenues to their now poor owners. Existing farms and orchards would yield thrice the income that is now obtained, and by aid of the surplus thus obtained would these new lands be subdued to unlivation. Poor men would then be receiving good wages by aid of which they would buy lands whose crops would speedily make them rich.

"Why can the fruit of Jersey not travel thus speedily and cheaply? The answer may, I think, sendily be given.

"The great monopoly has much to do. It has large taxes to collect and to distribute. It is the farmer general of the State, for which it collects thank duties upon men and things from abroad. It has no leisure to look after the business of its customers, or to regulate its trains to suit their wants, however much it may have for making regulations to suit its own, and those of the men who manage it. Its market train passes through Burlington in the former, and that train carries peaches that reach New York next day at noon, and thus the fruit gathered on Monday is in that city at the very moment when it might be in Utien, or Portland, hundreds of miles further transportation, and it must be sold. It finds there the compelition of Delaware, whose peaches can go to that market cheaply by rea, and do go there mainly because she is interfered with in Philadelphia by Jersey peaches that sught to have gone north. Both States are thus seemabling for the limited market that exists, and which is limited for no other reason than because the private interests of the Jersey monopoly forbid its extension. Prices are low, for fruit is abundant, and it will not keep. At such prices they are sold to hucksters, who retail the ripe ones, and send those which are unripe to Boston, at which place they arrive on Thursday. The Jerseyman thus loses all the ad

mas of this visibility, seeing no other mode of getting would be six folders, which gives almost per miles, a tom as of this visibility to Boston, applied for permission to send them by the Irain. The answer was, that 'It carried so freight.' He waited on the rail-road kings themselves, and then, as a special favor, obtained permission to send twolve, baskets per day, the baskets per day, buliefed the searchest of accepted for commendation of the search of the

At the commencement of his eighth letter he says

the work almost precisely the same distance, and on a road that has no through travel to support it, the charge would now be twelve, but if peaches were there, as here, a great article of commerce, they would be carried as cheaply as are now tomations, and pay but five cents per basket. I will however, assume eight cents as the true price by the ordinary trains, and show what would be then the difference.

The farmer of Burlington who has ten acres of peach trees may have 1,000 baskets, and for the freight of these her pays.

Solidiference, being the amount of transit duly.

The farmer will do well to calculate the extra cost of his eight hetter to call your attention to an extraordinary and important fact, to during the ordinary trains, and show what would be then the reight of these her pays.

Solidiference, being the amount of transit duly.

Here we have an excess amounting to twelve dolars an acre. In consideration of paying the enormous lax, he is permitted to get his fruit to New York, Connecticut, Yermont, Massachusents, and New Hampshirs, there to be sold at high prices of the extraction, the remained the distance of the transit duly imposed upon him by a company to which he has graated a monopoly of the soads of the State with a view te enable him to avoid the payment of a tax of about see cent per acre.

If the following intimation is correct—which we are unwelling to need to full extent—it would of the large and them.

The company time a morning train for passen
"The distance of Burlington from New York is a support to travel, or to transport produce or merchandise upon them."

The distance of Burlington from New York is a support to travel, or to transport produce or merchandise upon them.

"The distance of Burlington from New York is a proper to travel, or to transport produce or merchandise upon them."

The distance of Burlington from New York is a popular

company complied with the conditions upon which that charter was granted.

"It has not done so. It has violated them habitually, and during a long series of years: and it has done this to the enormous injury of the people of the State. By so doing it has placed it in their power to declare the charter null and void."

He says, "if, however, the people, in view of the fact that there are some few innocent stockholders some few who, relying upon others, have been innocently involved in these transactions, and have taken no part themselves in these unceasing violations of the conditions of the charter—some few who have not speculated in peach orchards, or Trenton railroad stock—and desirous not to push the innocent with the guilty, should desire to be lemiest to all, they might pursue another course. They might declare the charter null and void, and then make a new settlement with the company, requiring them to pay into the treasury a fixed sum equal to the amount now paid: passing, at the same time, a general law for the making of both turnpikes and raithouds, and thus extinguishing for ever the monopoly, without interference with the revenues of the State.

"By the adoption of this course, the people would secure for themselves perfect freedom to make roads in every part of the State, leading to or from the great markets of the Union."

There can be little doubt, we imagine, of the truth of the closing remark of the above paragraph. Railroads would be made in almost every direction thro' the State, and the value of lands and property would be immensely enhanced.

He says, "New Jersey should be one of the richest States in the Union. Her position is admirable. She has every variety of soil. She has water pow-

made were it not that she is saddled with an unscrupations monopoly, whose finger is everywhere—whose purse is large—whose accounts are unexamined, and are, as I believe, little likely to bear the scratiny to which they may yet, perhaps, be subjected.

Wherever it is desired to make a road, there is its finger scen—there are its wire-workers employed. Mount Holly wants a road from Camden. To kill it, a law must be obtained for one from that place to Burlington. Their object attained, their road sleeps the sleep of death. Flemington wants a road. That also is to be killed. Belvidere wants a road. That also is to be killed. Belvidere wants a road. That must be taken to their embrace, to be killed or not, at their pleasure. "New Jersey has few roads. New Jersey has fittle influence. If we would know why all these things are, it is necessary only to study her can't and railroad history, and compare it with that of Massachusetts. The one makes a trap for strangers that she may plunder them. The other makes numerous roads, that she may induce them to travel across her territory, and thus contribute to the formation of excellent roads for her own use. The one is an oligarchy. The other is a democracy. In the other they are rich and well instructed."

At the commencement of his ninth letter he says:

At the commencement of his ninth letter he says At the commencement of his ninth letter he says:

"One step has, at length, been taken. Your legislature have adopted a resolution having for its
object the establishment of a line from Camden
through New Brunswick, to New York, to run at
through New Brunswick, to New York, to run at
whether the monopoly will, or will not, see fit to
do this, remains to be seen. Should they do so, the
people of the various parts of the State will be enwhen the various parts of the State will be enpeople of the various parts of the State will be enabled to exchange visits without being compelled to pass through Pennsylvania for the sole purpose of paying one dollar each for the unnecessary use of ten miles of road owned and controlled by the railroad kings, who have there established their great toll-gate for the collection of the dues payable by yourselves for the use of the right of way in your own State."

It appears, however, by an article which we rea in the Newark Daily Advertiser, that the company put their own construction upon the resolution of the New Jersey legislature, and run the I P.M. train on the Camden and Amboy line all the way, instead of by the way of Trenton and New Brunswick.

French Railways and the Republic

It appears that the French provisional government are disposed to "absorb" all the railways—without even asking the consent of the owners. It might as vell absorb all the vineyards—and could as well manage them as the railways—and in taking posse ion of them, they would do no more injustice to the proprietors, nor any more to violate the laws of moral-Ry and justice, than in taking the railways without

the content of the shareholders.

If the government chooses to build all the railways desired hereafter, that is another thing—but it should beware how it gives just cause for the appli-cation to itself of the following, which heads Heraath's editorial on this subject. He says :---

path's editorial on this subject. He says.—

"Whoever is inclined to rob,
Is seldom nice about the job!"

And we think he is pretty near right.

The following account of a meeting of parties interested in the railways, with M. Garnier Pages, shows the disposition of the government, but they dare not indulge it to the extent indicated here.

They had better attend to their legitimate duties, and leave the companies to manage the railways—they have quite enough to do to fulfil the expectations of the people without meddling with the railways, except to see that the companies perform their duties.

The proceedings were as follows, viz:

On Wednesday, the 12th of April, M. Garnier Pages, the minister of finance, received a deputation, consisting of nearly sixty directors of the leading French railway companies.

The minister stated that, for various reasons, he thought it not only expedient, but absolutely necessary, that the State should take the railways into its own hands, that they might be more effectually under its control and protection. The chief of these reasons were the depredations which had been committed upon certain lines, the inability of directors to overcome the insubordination and directors to overcome the insubordination and exorbitant claims of the workmen, and the impossibility of certain unfinished lines obtaining sufficient funds for their completion. Under these circumstances, the minister proposed the following plans for the purchase of the railways by the State:—

"First.—The conversion of the shares at

"First.—The conversion of the succeeding the actual price of this day, and payable in

money.

"Secondly.—The same, payable in rentes, at the same actual price.

"Thirdly.- The conversion of the shares at the price of the half-monthly settlement of early day, we have no doubt. The Wayne S 15th of February, payable in rentes at the price of the same day.

The stock subscribers for the organi

Fourthly.—The conversion of the shares into rentes, each taken at the average market

"Fifthly.—Examination of the question whether the repurchase should be on the basis of the amount actually paid up, or on the revenue actually yielded by the railway. This latter basis was obviously impossible in reference to those lines which are still only in course of construction. It was upon these points that he wished to obtain the opinions of the several companies, and he was now ready to give them carnest attention."

M. Mayard, for the Andrezieux, and Roanne, and other southern lines, stated that these reasons did not apply to the companies he represented, and they were also granted

in perpetuity.

Count Deny Benoist doubted whether, supposing the terms were accepted, they could be carried out by a general meeting, if there were one dissentient shareholder.

Baron Paul de Richemont said, that the Orleans and Bordeaux was an Anglo-French company, and one half of the shares held in England, under a solemn contract with the French nation. The English shareholders had no fear of spoliation, but they were fully satisfied to continue to fulfil their engagement towards the French nation, and the public, a they had hitherto done. The reasons of the minister did not apply to this company, and there was a cordial understanding between

the directors and the workmen.

M. Leon Faucher expressed similar sentiments on the part of the Paris and Strasburg

There was a general disinclination to speak, or be drawn into a discussion, and the North authorition of \$1,000 to the mile of a pro-

line would rather receive their 10 or 11 p cent, dividend from the company than be a sorbed by the State.

No one else being disposed to speak in p ply to the invitation of the minister, he d

clared the sitting at an end.

Direct Religional from Typescape to Rechester.

The following account of the proceedings of a meeting held at Rochester on the 18th of May, are from the Wayue Sentinel of the 24th. It appears from these proceedings, that the people interested are resolved to have a more direct line, than the present by the way of Auburn, Geneva and Canandaigua, to Rochester; and when this line is fairly under way, there will probably be renewed efforts in favor of the road from Rochester to Niagara Falls thus making rival lines from Syracuse west—one by the falls through Canada, Michigan and Illinois and the otner to Buffalo and Erie, through Ohio, Indiana and Illinois, to St. Louis.

Whether there will be a rival line from Syracus

Whether there will be a rival line from Syra eastward to the Hudson, is yet a question; but of the construction of a road from Syracuse, south to Bin hamton, or to some point in that vicinity, the opening a communication with the New York as Erie, and the coal region of Pennsylvania, at a

The stock subscribers for the organization of a corporation to construct the proposed railroad, met at the Waverry House in the price during the six months preceding the city of Rochester, pursuant to previous notice on the 18th. Hou, Harvey Baldwin, of Sy racuse, on motion of Judge Miller, was called to the chair; and on motion of P. Tucker, Hon. Samuel Miller of Rochester, and Wm. Clarke, Esq, of Lyons, were appointed se cretaries.

> The number in attendance was about 100 and the interest and confidence manife in the contemplated work, were such as to augur well for its early completion. Upon this question there was but one opinion; and the proceedings and results of the me were throughout harmonious and satis

The preliminary stock subscriptions reported at the last meeting, were called for, and the 10 per cent. upon the same as required by law, was paid in by the subscribers, to Freeman Clarke, Esq., temporary treasurer.—Eight hundred and twenty-two shares, amounting to \$82,200, were found to be thus taken—all, with a single exception, by gentlemen residing on the route of the proposed road, as stated below, viz:

Stated Determy was at 1st the de house, hand
At Rochester 99,000
At Macedon 9,700 At Marion 500
At Palmyra 9,700
At Marion 500 At Newark 3,000
At Newark
At Lyons 9,500
At Port Ryron
At Clyde
At Jordan
At Caston
At Syracuse 16,000
At Baldwineville
At Baldwinsville 500 At Troy 5,000
Total 12 97 17 2 189,200
Towns of the second sec

line being called upon by name, the state aubscription of \$1,000 to the mile of Baron James Rothschild simply declared posed road, and the payment thereon that he had no doubt the charcholders in that per cent, as a pre-requisite to the org

form other duties provided by law, viz:— Thomas W. Olcou, Albany; Alfred Mun-con, Utica; James R. Lawrence, Syracuse; Oliver H. Palmer, Palmyra; Everard Peck,

The articles of association of the corporation, as reported by the committee previously

meeting of the directors.

The directors are to meet at Lyons on Tuesday, the 6th of June next, for the purpose of a formal organization of their board, and to take any action in regard to the busi-ness of the company that may be deemed

The books for subscriptions to the capital

nt State of Hajiway Property In Eng-

what particular classes of shares will be though we think we may lay claim to have been found much oftener right than wrong. The reason is very simple. We collect all the best facts we can, and from a careful mixing and silfting of them, end avor to elicit causes which shall indicate the future current of affairs. For, unless where such extraordinary things pop in as the French revolution to disturb the even rolling out of effects from causes, we are inclined to believe take a considerable start upwards.

The reason is very simple. We collect all known, will first feel, and it may be, most feel the advantage. In these unsettled times, men hardly like to have liabilities impending over them.

There is, however, happily within our reach, the means of finding employment for large numbers of men on works of great reproductive value. We allude, of course, to the revolution to disturb the even rolling out of effects from causes, we are inclined to believe that a pretty stree guess may be made of the shares, which are awfully depressed, may future from the present without much pretentake a considerable start upwards.

The reach advance, the very disproportionably low rates at which they stand.

If anything, the next winter is that to be dreaded. During the summer there will be little difficulty in procuring work, but when the winter comes on it will be another affair. There is, however, happily within our reach, the means of finding employment for large numbers of men on works of great reproductive value.

Provided France continue her present plant the necessary oil to lubricate the State machinery and keep it in lubricate the shares, which are awfully depressed, may future from the present without much pretentake a considerable start upwards.

sion to the gift of prophecy. That is, indeed, privileges of a corporation. The length of the whole secret of our former pre-acience. Upon that we form our present belief or pre-less tuan 80 miles—Mr. Geddes, in his speech, estimates it at 74 miles—so it will be seen that the subscriptions already obtained exceed the required amount some \$6,000. The entire capital stock of the company, as established in their articles of association, is \$1,500,000.

The stockholders proceeded by ballot to the election of a temporary board of thirteen directors, as follows:—John Wilkinson, Or wille W. Childs, T. T. Davis, Syracuse; E. A. Baldwin, Baldwinsville; J. M'Clure, Jordan E. P. Ross, Por Byron; Aaron Gris wold, Clyde; Daniel Chapman, Lyons; G. W. Cuyler, Pulmyra; Freeman Clark, Samuel Miller, E. S. Beach, Rochester; Alanson Douglas, Troy.

The following gentlemen were chosen commissioners to open books of subscription to the capital stock of the company, and per consistent may be said of the other form other duties provided by law, viz:—States, notwithstanding their present apparatily nearestable position. Henry while we really nearestable position. a company possessing the powers and sion to the gift of prophecy. That is, indeed, worth. Similar may be said of the other States, notwithstanding their present apparently peaceable position. Hence, while we continue quiet in this country, and at peace with other countries, we think we may fairly look forward to an accumulation of money in England. The consequence will, we think, be numerous and large money purchases into the funds, and a gradual rise, with, however, some checks and fluctuations.

appointed, were then adopted and signed by the committee of the secretary of State.

A committee of directors, consisting of Musers. Wilkinson, Childs, and Davis, of Syracuse, were appointed to report by-laws for the firmness to keep clear of dangerous treaties. If it be a fine one, and well got in, it the government of the company, at the next ties, except treaties of peace, with continental powers. We do not consider whether the The directors are to meet at Lyons on Continental powers go to war or not. The Treaduy, the 6th of June next, for the purity and the sembroided that the company to the continental powers are first, yet as soon as it is

Should the funds rise, the railways will The books for subscriptions to the capital a degree, at least in some degree. For men stock will be immediately opened by the commissioners, giving to all who desire to make an investment, an opportunity of doing point, and the calmness of our affairs restores to With the amount already paid in the surveys, plans, etc., can be carried forward, as soon as the engineer shall be appointed. The following views of the editor of Herapath's land, and a Hint to Government.

The following views of the editor of Herapath's ly, can disturb us. We may have a few Railway Journal, on the present—let April, 1848, disturbances, or attempts at them; but Engaspect of affairs in Europe, and their influence land, as a nation, is not disposed to try wild upon railway property in Great Britain, may be of

What we have here said relates to the four or five months only, and not to any very distant period. We are of opinion, with many others, that France cannot long continue under her present form of government though her rulers are doing, and will, at doubt, do all in their power to preserve orde and respect property. She is too far advanced in civilization to be long governed as a republic. We, therefore, at no distant day, look forward to some new convulsion in that

Moreover, the dissatisfaction spreading into other countries, and the large armed forces kept up by Russia and Austria, render it probable that an oubreak of some kind may take place, and involve the European countries. tries in war. That may not happen yet; but we should not like to take the odds for peace for twelve months, or perhaps for six. Should the French revolution, contrary to the expectation of all thinking men, work well, the natural love of change may prompt other countries to follow the perilous example, which would immediately kindle an extensive, if not a general war. In this country we hope and believe there is good sense enough in the great body of the people to keep out of any such experiments, which both ancient and modern history shows, have

will help to raise the value of railway property, and the contrary, if it be a backward and wet harvest. We do not profess to be weather-wise; but, indiging from the springs pose of a formal organization of their board, clearly seen that we are not to be embroiled, and summers of a few past years, and the by the choice of a president and engineer, their quarrels would rather tend to benefit present season, so far as it has advanced, a moist summer is not unlikely. However, there is so much excellent corn from last naturally go up with them, if not in so rapid a degree, at least in some degree. For men ty. We, therefore, do not think that the a degree, at least in some degree. For men ty. We, therefore, do not think that the will begin to look about them for better interest, as soon as the funds reach a certain railways; though, if it turn out a good one, point, and the calmness of our affairs restores and is well saved, it may considerably aid their market price.

> Calmly looking over the present position tented with out lot. Nothing, indeed, but injudicious measures on the part of the minister, in straining the cord of taxation too tight ly, can disturb us. We may have a few disturbances, or attempts at them; but Engrailways, we might add to our reasons for an expected advance, the very disproportionably low rates at which they stand.

at once, and not wait to be driven into it by circumstances. The weather in the winter may prevent employment. If men, therefore, can provide in sunshine for a rainy day, would be all the better; and it would be wise to encourage and assist them to do so.

Mr D. Gooch, of the Great Western railway England, read before the Institution of Civil Engineers on the 18th April, a paper on the "resistances to railway trains at different v-locities." Although the paper is not given in full, yet the following synopsis will, we think, be interesting to our readers, therefore we give it, and shall, herenfler, if we can obtain the article entire, give it a place in the Journal, as we believe we have much yet to learn on England.

Stead of 4 feet, having a much greater length from the chair.—The paper of the evening was a series of "observations on the resistances to railway trains at different velocities," by Mr. D. Gooch, of the Great Western. For the purpose of performing the experiments, a dynamometer carriage was constructed in Swindon, in which all the results required where registered upon a large scale, on the same roll of paper, thus exhibiting at one view, and in the same period of time, the tractive power exerted upon the train, and the force and direction of the wind; the registered upon the train, and the force and direction of the wind; the registration of the results was made upon the paper at every sixteenth part of a mile, and the time was registered in correspondence with the distance traversed during every fifth part of a second. The dynamometer spring used was 7 feet 6 inches long, and very carefully arranged. It was only necessary to count the number of seconds, or fractions of a second, in one or more of the distance divisions, and the speed was accurately ascertified.

Stead of 4 feet, having a much greater length of the wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He reviewed the great effect of a side wind to act upon, etc. He are wheels against a train of carriage was much and the train of the wind to act upon, etc. He are wheels in a side wind the train of the wind to act upon, etc. He are wheels in a side wind the experimen indicated on the same sheet all the results. Indicator cards were also taken simultane outly from the steam cylinders as frequently as was practicable, but not continuously, as it was a service of some danger, the experimentor being obliged to sit on the buffer was 314 pounds. The broad gauge resist-least iron, the result of the extensive and interpretation.

field for employment, if our rulers will deign beam of the engine at a velocity of 60 miles to cultivate it. There is no necessity for the State to spend its money, but simply to lend its credit—or offer to land it, which, doubtless, would effect the same object—for a short period. If this be done, it will not simply perfectly straight and level, and nearly on give employment to many thousands of hands, and nid these great works now lying idle, by bringing them into earlier profitable operation, but it will ruise the price of railway property, and enable the weak holder to get experimental train consisted of first property, and enable the weak holder to get experimental train consisted of first and second of what he cannot go on with, or sell, excond class carriages, each on six wheels, 4 cept at a runous loss. Much, therefore, will depend on the pru working stock, and loaded with iron to repredence of ministers, in keeping our country sent a fair load of passengers, giving a gross internally quiet. Happily, railways furnish weight for each of ten tons. The experitive means of doing so without expense, and means were tried with various weights and if the opportunity is not embraced, we shall speeds up to 100 tons, and to 63 miles per deeply lament it. We should like to see the hour, and the results were classified and argovernment turn its attention to this subject ranged in a tabular form, with copious extended upon the rails, with different at once, and not wait to be driven into it by planatory headings, so as to render reference weights upon them, and with different diam circumstances. The weather in the winter to them exceedingly easy. The author first term. 4. The resistance due to the passage may prevent employment. If men, there Harding's formula, which was given at the discussion at the institute in 1846, and gave his reasons for dissenting from that formula. He then examined critically several experi ments recorded in the tables, stating candidly all the exceptions that could be taken to them; showing that although there was a difference of as much as 52 per cent, shown between the resistance as calculated by Mr. Harding's formula and the experiments made by Mr. Gooch, that difference might be accounted for by the methods employed by Mr. Harding, which were objected to, as calculated to this subject, not only in this country, but also in produce erroneous results, viz : allowing carriages to run down inclines by their own gland.

Institution of Civil Engineers.—April 18.

General Meeting.—Mr. J. Field, President, the chair.—The paper of the evening was form elements in any general formula. He showed by experiments that the total atmos pheric resistance to a train weighing 50 tons of 100 tons weight, if the carriages were small, and the train long in the one case, and the reverse in the other case. The general result of the diagram of resistance with trains of 100 tons, and with 50 tons, showed that the results. Indicator cards were also taken simultane outly from the steam cylinders as frequently

with a train weighing 50 to miles per hour, was under 23 pounds; an with a train weighing 100 tons, at 61; mile per hour, was 22; pounds. We cannot, of course, give fully the results, except in comprehensive form, but such were the general results. The author concluded hip paper by saying that it appeared to him necessary, before any general formula for calculating the resistances to railway train could be made, that the value of the following elements, necessary in such formula ing elements, necessary in such formula should be determined by experiments:— The axle journal friction, at different veloc ties and at different weights, per aquare inch of journal surface. 2. The resistance to the rotation of the wheels and axles per pair, at different velocities and with different dia ters. 3. The resistance due to the rollin weights upon them, and with different diameters. 4. The resistance due to the passage ent velocities, with different proportions weight, and length and hreadth of train. The resistance due to oscillation or unate motion of the train, at various speeds author considers that all these values might be determined with a considerable degree of accuracy, by careful experiment.

On the Strength of Materials.

Mr. Buchanan, president of the "Society Society of Arts," read before the society, at their general eeting on the 20th of February, the following pu per "on the strength of materials, particularly iron, and malleable iron, and their application the construction of railway bridges. He says

"Although many of the facts have been previously presented to our readers, the whole paper is one of so highly interesting a char-

The various strains might all be reduced to two kinds, according as the material is either distended or compressed by any force or pressure. From these two all others arise, and either consist or are compounded of them.-

riments of Messra, Hodgkin rom the mean of 16 different trials of Eag-ishte Welsh and Scotch fron, both het and old blast, that this material will sustain about 74 tons per square inch before breaking, the weakest specimen being 6 and stronger 91. The limit of fracture, however, can hever be approached with safety, nor even within a long distance, seeing that this material is liable to unseen imperfections, and above all, to map in a moment without disding itself, or giving any watning of dan-

Malleable iron, again, is much superior in tensile attength, and, by its remarkable duc-tility, inspires confidence in a still higher de-gree; bears ne less at an average, by various experiments from Telford and Brown, than 27 tons the weakest 24, and the stronges 29 tons; but before the hulf of this load in applied, it begins to stretch, and continues stretching up to the limit of fracture. It is therefore not only three times stronger than east fron, but may be safely loaded with five times the breaking weight, or about eight or nine tons. In regard to the strength of compression, this depends also, as long as the ength is limited, on the same element—the section of fractures; but when a long rod or alender pillar is loaded or compressed, it is liable to bend, not for want of strength, but for want of stability, the least flecture turning t off its centre, and breaking it off by lateral force, deranging entirely the simple law applicable to short lengths.

" In regard to cast iron, by far the most sa tisfactory experiments are those by Hodgkin son and Fairbairn. The mean result gives very nearly 50 tons on the square inch-the weakest 364 tons, and the strongest 60 tons. It is thus six times stronger in compression than in distension, and hence it is peculiarly recommended for sustaining any superincum-bent weight, as in the case of pillars and of bridges, provided the construction is such as to resolve the strain arising from the load into a longitudinal compression. This is often in our power by proper arrangements chiefly giving a sufficient height and curvature to the arch; but in cases where, for the want of head room, the arch is unduly flattened or resolved into a straight beam or girder, the danger is that we bring the tensile force into ylay, and then the use of cast iron is objectionable, or at least requires extreme caution. malleable iron of short lengths, but from some facts brought out by Mr. Hodgkinson, its strength appears much inferior to cast iron chiefly from ductility, whereby it gives way much sooner under a load. It will bear 27 the steep bank on each side, well known to the steep bank on each side, well known to the steep bank on each side, well known to the steep bank on each side, well known to the steep bank on each side, well known to the steep bank on each side, well known to the steep bank on each side, well known to the steep bank on the south, and Dean street on the north, both to be now superseded by the smooth and level surface of the railway, and by a turnal level surface of the railway, an

leith stone will bear 24 tone on the inch, or dimensions and atructure, ipwards of 400 tone on the square lost; Abordeen granite 600 tons. In regard to bricks, he had occasion to make experiments in relation to the great chimney of the Edinburgh gas works. It became matter of consideration whether the ordinary brick could withtion whether the ordinary brick could with-stand the pressure of so lofty a column.— Trials were therefore made with a powerful hydraulic press, not on small spacimens, but on the actual brick. The ordinary stock brick was found to bear 140 tons on the square foot, and the common fire brick 157 tons; but the brick of which the chimney is con-structed, consisting of a mixture of fire clay and iron stone, bore, a single brick on its bed, no less than 140 tons, equal to 400 tons on the square foot. The effect of the transverse strain was then considered and illustrated by various experiments and models. The strain is a compound of the tensile and compressive strain, the one part of a beam loaded in the middle being compressed and the other distended, and the beam itself becoming a lever, and acting often with enormous power against its own strength. Hence it became easy to calculate the strength, this being in every case proportional in the first instance to the area of the section of fracture, and this oridepth of the beam, diminishing in exact proportion to the length, and increasing in pro-portion to the depth. The transverse strain acting with such severe advantage against our materials, various methods have been contrived for eluding its effects, and for these none is more remarkable than the principle of the arch, the effect of which was illustrated by experiments and particularly the necessity in flat arches of having secure abutments to resist the horizontal thrust, and this was frequently accomplished where there is sufficient head room, by uniting the extremities of the arch by strong malleable iron rods, in the same manner as, in the case of the roof, the feet of the rafters are united and prevented from spreading by the tie beams; and this s the principle, the securest of all, on which progress, is constructed, the object of which is to cross the river and valley of the Tyne, on the highest level of the railways on each three quarters of a mile or more, into one

present terminus of the York and Newcastle is 3,457 feet, consisting chiefly of the space occupied by the bed of the river Tyne, and the steep bank on each side, well known to travellers in descending from Gateshead Fell on the south, and Dean street on the north, both to be now superseded by the smooth and both to be now superseded by the smooth and level surface of the railway, and by a turn-level surface of the railway and by a turn-level surface of the railway, and by a turn-level surface of the railway and by a turn-level surface of the railway and by a turn-level surface of the railway.

dimensions and attricture, resting on solid piers and lofty columns of masonry. In the bed of the river the piers are laid on very solid foundations of piles planking, with concrete, many of the piles 40 feet in length, and driven to this depth through hard gravel and sand till they reach a bed of freestone rock. Nasmyth's celebrated pile driver is in full operation here, and with wonderful effect, and has come most opportunely in aid of the work—driving night and day, at the rate of 60 or 70 strokes a minute, the pile heads being often set on fire by the rapidity and violence of the blows of the ram. Piers laid 2 feet below low water mark, and raised about 100 feet to the according of the water. feet to the springing of the arches. The arches consist each of four main ribs of cast iron, each in five segments, bolted together, and forming one entire arch 125 feet span, and rising 17 feet 6 inches in the centre, and the level of the rails on the upper platform 1084 feet above the level of high water mark of the Tyne. Depth of the rib 3 feet 9 in. at the springing, and 3 feet 6 in. at the crown, with flanges 12 inches broad, external ribs 2 in thickness of metal, internal ribs 3 inches Total sectional area at the crown 644 square inches, which would bear with safety a load of 5, or 6,000 tons, and would form, with proper abutments, a strong arch in itself; but for the fullest security, and to prevent the possibility of inconveniences of risk from deflection or vibration, or otherwise, each rib is united at the springing by strong malleable iron bars or fies, 7 in. broad and 1 in. deep, of the best scrap iron, and in all 24 in number. The railway is supported above the arch, and the roadway suspended from beneath, by hol-low cast iron pillers, 10 feet apart, and each 14 inches square, through which are passed strong malleable iron circular bars, binding the whole into one stiff and solid mass.

" The sectional area of the horizontal bars is 168 square inches, which would sustain upwards of 4,000 tons without breaking, and 1,500 tons with perfect safety, but the whole weight of the bridge will not exceed 700 tons, leaving 800 tons of surplus strength. the great iron bridge at Newcastle, now in progress, is constructed, the object of which is to cross the river and valley of the Tyne, on the highest level of the railways on each side, so as to unite them in an untirupted line from London to Berwick, and unite the termini of the different railways, now separated three quarters of a mile or more, into one grand central station, a little to the west of the ancient castle.

The distance between the station and the present terminus of the York and Nawcastle station of which is at the summit level, runs on a level of 4 feet above the crown of the arched rib, and is supported in the middle by hollow cast iron trough girders resting on the top of the pillars, 10 feet apart, and united by longitudinal timbers laid with strong planking. The roadway runs nearly on a level of the malleable from fies, leaving a space of about 20 feet clear head room. In the whole of the work the atmost pains have been bestowed on materials and workman-ship, and in making everything complete, the

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DEOTOGALS, under seel and unitably condered will be received by the ancienting of the design of the strain of the

The patent for this invention was granted to Mr. W. C. FULLER, in October, 1846, and the same gentleman has patents for it in England and other countries in Europe. The sole Agent in the United States is Mr. G. M. Kneverr, who will show models and drawings of the various modes of application to pattenger cars, eaginst, lender, pagons, etc., and give further particulars as to its satisfactory working; and is prepared to supply the Springs in any quantity, or to grant licenses for manufacturing them.

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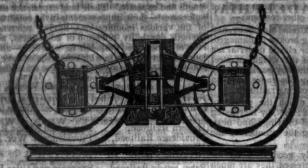
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York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for building the same, from Railroad Companies and Car Builders in the United States, and elsewhere.

States, and elsewhere.

The above Truck has now been in use from one to two years on several roads a sufficient length of time to test its aurability, and other good qualities, and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

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er was late a pariner) u

pervision of Mr. Ray himselfer vas late a pariner) under the immediat pervision of Mr. Ray himselfer vas latest improvements have recently sen turned out for the New York and Eric railroad, and the New Jersey ransportation company, which may be seen upon said roads. The patronage of Railroad Companies and Car Builders is respectfully licited.

w. H. CALKINS, and Others.

To all whom it may concern:—This is to certify that the New Haven, Hartford and Springfield railroad co., have had in use aix sets of F. M. Ray's patent trucks for the last 20 months, during which time it appears to me, they have proved to be the bes and most economical truck now in use.

[Signed,] WILLIAM ROE, Sup't of Power.

I certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Philadelphia and Reading railroad for some time past, under a namenous car.

passenger car.

For simplicity of construction, economy in cost, lightness of material, and extreme case of motion. I consider it the best truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed.] G. A. Nicolli,
Supt Transportation, etc., Philadelphia and Reading Railroad.

To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

Jersey City, November 4, 1845. N. Jersey Railroad and Transp. Co.

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For simplicity of construction, economy in cost, lightness of material and ease of motion, I consider it equal to any truck we have in use.

Long Island Railroad Depot., Jamaica November 12, 1845. [Signed.] John Leacn,

Jamaica November 12, 1845. [Signed.] John Leacn,

Jamaica November 12, 1845. [Signed.] Sup't Motive Power.



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Willow St. below 13th,
Nov. 10, 1847. [tf.] Philadelphia, Penase.

Nov. 10, 1847. [U.] Philadelphia, Pensal DATENT HAMMERED RAILROAD, SHIP and Boat Spikes. The Albany Iron and Nail Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form of head. From the excellence of the material always used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warrenting them fully equal to the best spikes in market, both as to quality and appearance. All orders addressed to the subscriber at the works, with be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y.

The above spikes may be had at factory prices, of Erastus Corning & Co., Albany: Hart & Merritt, New York; J. H. Whitney, do.; E. J. Etting, Philadelphia; Wm. E. Coffin & Co. Boston: 1945



THE SUBSCRIber has on hand good assortment of is best Leveling and nis best Leveling and
Surveying Instruments, among them
his improved Compass for taking angles
without the needle—
also Bells, suitable
for Churches, RailANDREW MENEELY,

west Troy, May 12, 1847.

West Troy, May 12, 1847.

PATENT RAILROAD, SHIP AND BOAT Spikes. The Troy Iron and Nail Factory keeps constantly for sale a very extensive assortment of Wrought Spikes and Nails, from 3 to 10 inches, manufactured by the subscriber's Patent Machinery, which after five years successful operation, and now almost universal use in the United States (as well as England, where the subscriber obtained a patent) are found superior to any ever offered in market. Railroad companies may be supplied with Spikes having countersink heads suitable to holes in iron cails, to any amount and on short notice. Almost all the railroads now in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invaluable, as their adhesion is more than double any common spikes made by the hammer.

All orders directed to the Agent, Troy, N. York will be punctually attended to.

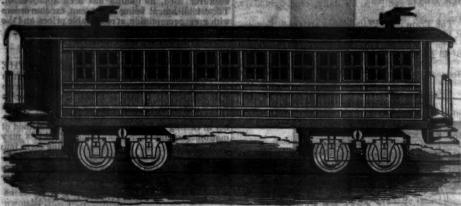
HENRY BURDEN, Agent

Spikes are kept for sale, at Factory Prices, & J. Townsend, Albany, and the principal Iron chants in Albany and Troy; J. I. Brower, 2223; St., New York; A. M. Joace, Philadelphia; Tviera, Baltimore; Degrand & Smith, Beston.

\*\* Railroad Companies would do well to fo their orders as early as practicable, as the analysis desirous of extending the manufacturing so been more with the daily increasing demand.

keep pace with the daily increasing demand,

### DAVENPORT & BRID WORKS, CAMBRIDGEPORT



Manufacture to Order, Passenger and Freight Cars of every description, and of the most improved pattern; also furnish Snow Ploughs and Chilled Wheels of any pattern and size. Forged Axies, Springs, Boxes and Boits for Cars at the lowest prices.

All orders punctually executed and forwarded to any part of the country.

Our Works are within fifteen minutes ride from State street, Boston—Omnibuses pass every fifteen

### FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

TO THOSE INTERESTED IN
Railroads, Railroad Directors
and Managers are respectfully invited to examine an improved SparkArrester recently patented by the undersigned.

med, improved Spark Arresters been extensively used during the ear on both passenger & freight es, and have been brought to

have been extensively used until the last year on both passenger & freight engines, and have been brought to such a state of perfection that no annoyance from sparks or dust from the chimney of engines on which they are used is experienced.

These Arresters are constructed on an entirely different principle from any, heretofore offered to the public. The form is such that a rotary motion is imparted to the heated are smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own gravity to the bottom of this chamber; the smoke and steam passing off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught or activity of the fire in the furnace.

These chimneys and urresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits.

R. L. Stevens, President Camden and Amboy Railroad Company; Richard Peters, Superintend, ant Georgia Railroad, Augusta, Ga.; G. A. Nicolls, Superintendant Philadelphia, Germantown and Norristown Railroad Company, Philadelphia; E. B. Dudley, President W. and R. Railroad Company, Wilmington, N. C.; Col. Jaines Gadsden, President S. C. and C. Railroad Company, Wilmington, N. C.; Col. Jaines Gadsden, President S. C. and C. Railroad Company, Wilmington, N. C.; Col. Jaines Gadsden, President S. C. and C. Railroad Company, Savannah, Superintendent Philadelphia, Reading and Jackson Railroad, Vicksburgh, Miss.; R. S. Van Rensselaer, Engineer and Supt Hartford and New Haven Railroad; W. R. M'Kee, Sup't Lerington and Ohio Railroad, Lexington, Ky.; T. L. Smith, Sup't New Jersey Railroad, Trans. C

Orders for these Chimneys and Arresters, addressed to the subscribers, care Messrs. Baldwin & What lev, of this city or to Hinckly & Drusy, Boston, will be promptly executed. FRENCH & BAIRD.

N. B.—The subscribers will dispose of single rights, or rights for one or more States, on reasons le terms.

Philadelphia, Pa., April 6, 1844.

\*\* The letters in the figures refer to the article given in the Journal of June, 1844.

THE SUBSCRIBER IS PREFARED TO execute at the Trenton Iron Works orders for Railroad Iron of any required pattern, and warrantsel equal in every respect in point of quality to the best American or imported Rails. Also on hand and made to order, Bar Iron, Bratiers' and Wire Rode, etc., etc. PETER COOPER, 1710 17 Burling Slip, New York.

RAILROAD IRON, PIG IRON, ETC. 600 Tons of T Rail 60 lbs. per yard,
25 Tons of 21 by 1 Flat Bars.
25 Tons of 21 by 9-16 Flat Bars.
100 Tons No. 1 Gartsbrorie,
100 Tons Welsh Forge Pigs.
For Sale by A. & G. RALSTON & CO.
No. 4 So. Front Sa, Philadelphia

NEW YORK HAHDEM RAILWOAL CO.—Summer Arrangement.—On and are

Tresday, June 1st, 1847 the care

will run as follows, until further notice. Up trains will leave the City Hall for-Yorkville, Harlem and Morrisana at 6, 8 and 11 a.m., 2, 2 30, 5 and 7 p.m.

For Morrisiana, Fordham, Williams' Bridge, Tuckahoe, Hart's Corner and White Plains, 7 and 10 a.m., 4 and 5 30 p.m.

For White Plains, Pleasantville, Newcastle, Mechanicsville and Croton Falls, 7 a.m. and 4 p.m.

Freight train at 1 p.m.

Returning to New York, will leave—

Morristana and Harlem, 7, 8 20 and 9 a.m., 1, 3, 4 30, 6, 6 28 and 8 p.m.

Fordham, 8 08 and 9 15 a.m., 1 20 and 6 15 p.m.

Williams Bridge, 8 and 9 18 a.m., 1 25 5 and 5 52 p.m.

White Plains, 7 10 and 8 25 a.m., 12 50, 5 35 p.m.

Pleasantville, 8 15 a.m. and 5 15 p.m.

Newcastle, 8 a.m. and 5 p.m.

Mechanicsville, 7 48 a.m. and 4 48 p.m.

Oroton Falls, 7 30 a.m. and 4 49 p.m.

Freight train will leave 32d street for Croton Falls and intermediate places, 4 a.m. and 4 y.m. and 9 p.m.

ON SUNDAYS, the trains will run as follows:

Leave City Hall for Croton Falls, 7 a.m., 4 p.m.

Croton Falls for City Hall, 7 30 a.m., 4 30 p.m.

Leave City Hall for White Plains and intermediate places, 7 and 10 a.m. 4 and 5 30 p.m.

White Plains for City Hall, 7 10 and 8 35 a.m., 12 30 and 5 35 p.m.

Extra trains will be run to Harlem, Fordham and Williams Bridge on Sunday, when the weather is fine.

The trains to and from Croton Falls will not etop on N York island arrent is Broowne at and 330 a.m.

The trains to and from Croton Falls will not stop N. York island, except at Broome st. and 32d st. A car-will preceed each train 10 minutes to take on N. York island A car will pre up passengers in Fare from Ne

to Croton Falls and S e, to Newcastle 75c., to ite Plains 50c. 25tf

NE BAILROAD.

Trains leave Boston as follows, viz
For Portland at 7 A.M. and 21 P.M.
For Great Falls at 7 a.m., 21 and 41 p.m.
For Reading 7, 21 6 111 a.m., 21 4, 51, 61 & 10 p.m.
For Reading 7, 21 6 111 a.m., 21 4, 51, 61 & 10 p.m.
Trains leave for Boston as follows, viz:
From Portland at 71 a.m., and 3 p.m.
From Great Falls at 61 and 91 a.m., and 41 p.m.
From Haverhill at 61, 21 and 11 a.m., 3 and 61 p.m.
From Reading at 6, 71, 91, 111 a.m., 11, 1, 71, 91 p.m.
MEDEORD BRANCH TRAINS.

Leave Boston at 7, 9 a.m., 121 21, 51, 7, 10 p.m. Leave Medford at 61, 71, 101, a.m., 2, 4, 6, 91 p.m. The Depot in Boston is on Haymarket Square.

CHAS. MINOT, Super 1.

Boston, April 15, 1848.

Boston AND PROVIDENCE RAILroad, Summer Arrangement. On and after
Monday, April 3, 1848, the
Trains will run as follows:
Steamboat Train—Leaves Boston daily, except
Sunday, at 5 o'clock p.m.
Accommodation Trains—Leave Boston at 7 and
11 a.m. and 4 p.m., and Providence at 74 and 11 a.m. and 4 p.m.
Pawtucket Train—Leaves Boston at 4 p.m. and
Pawtucket at 7, 10 a.m.
Dedham Trains—Leave Boston at 8 a.m., and
121 31, 61 and 9 p.m. Leave Dedham at 7 and 91
a.m. and 21, 51 and 8 p.m.
Stoughton Trains—Leave Boston at 111 a.m. and
51 p.m. Leave Stoughton at 7, 10 a.m. and 31 p.m.
WM. RAYMOND LEE Supt.

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hare

A. & G. RALBTON

A. & G. RALBTON

A. & G. RALBTON

A. & G. RALBTON Mar. 900 To What P

DHILADELPHIA AND READING RAILSummer Arrangement Change of
Hours Commencing on
Wednesday, May is 1918.

A Passenger Train will leave
A processor of 18 4 8.

A Passenger Train will leave
Train and 4 p. m.
Leave, at 10 a. m., and 4 p. m.
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Leave, at 10 a. m., and 4 p. m.
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Leave, at 10 a. m.
Leave, Ally ochocies and Morening Accommodation Trains from Boston, and workers and Western
and Accommodation Train from Boston.

A Passenger Train from Potaville arrives at Reading at
The Train from Potaville arrives at Reading at
The Train from Boston.

By Train via Steamboat—Leave, Ally ochocies, and the 10 a.

By Train via Steamboat—Leave, Ally ochocies, and the protection of the stamboat from Boston, at about 6 p. m., dialy, except Sunday, via province and Danielsouville.

Worcester for New York, upon the arrival and York province and Danielsouville.

Trains daily each way, except Sunday, via province and Sunday of the Carages, or large function on the arrival on the hoats from marrace will be made for cargoes, or large function on the arrival of the hoats from marrace will be made for cargoes, or large function on the arrival of the hoats from marrace will be made for cargoes, or large function on the arrival of the hoats from marrace will be made for cargoes, or large function of province and Danielsouville and Nor
Trains daily each way, except Sunday, except Sund Wednesday, May Ist, 1818.

Accommodation Trains, daily, (except Sunday.)
Leave Norwich, at 6 a.m., and 44 p.m. Leave
Worcester, at 10 a.m., and 44 p.m.
The morning Accommodation Trains from
Norwich, and from Worcester, connect with the
trains of the Boston, and Worcester and Western
railroads each way.

The Evening Accommodation Train from Worcester connects with the 24 p.m. train from Boston.
New York Train via Steamboat—Leave Allyn's
Point for Boston, avery morning, except Monday, on
the arrival of the stamboat from New York, stopping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival
of the train from Boston, at about 64 p.m., daily, except Sunday, stopping at Danielsonville and Norwich.

Ergicht Trains daily each way. h. reight Trains daily each way, except Sunday.ve Norwich at 7, and Worcester at 6 30 a. m
old contracts will be made for cargoes, or large
nties of freight, on application to the superinten-Flares are Lest when paid for Ticketsthan when aid to the Cars. S. H. P. LEE, Ja., Sup's, "Wrightsville 50
"Columbia 200
"Way points in proportion.

PITTSBURG, GETTYSBURG AND HARRISBURG.
Through tickets to Pittsburg via stage to Harrisburg. MITTERS PARENTHANANA

D. C. H. BORDLEY, Sup't.

Ticket Office, 63 North st.

BALTIMORE AND OHIO RAHROAD.

MAIN STEM. The Train carrying the Great Western Mail leaves Baltimore every morning at 74 and timore every morning at 74 and timore every morning at 74 and to cook, conneting daily each way with the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry — with the warious railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Gumberland and Wheeling and the fine Steamboats on the Monongahela Slack Waiter between Brownswille and Pittsburgh. Time of arrival at both Cumberland and Baltimore 54. P. M. Fare between those points \$7, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 32 hours, to Pittsburgh \$10, and time about 32 hours. Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.

Daily trains at 9 A. M. and 5 P. M. and 19 at night from Baltimore and at 6 A. M. and 54 P. M. from Washington, connecting daily with the lines North, South and West at Baltimore, Washington and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 eents per mile for intermediate distances.

\$13y1

CENTRAL AND MACON AND WEST-ern Railroads, Ga.—These Roads with the Western and Atlantic Railroad Western and Attantic Manager of the State of Georgia, form a continuous line from Savannah to Ootheale of 371 miles, viz:

Passage—Savannah to Atlanta, \$10; Children, nder 12 years of age, half price,
Savannah to Macon, \$7.

othcalogs, F. WINTER, Forwarding Agent, C. R. R. vannah, Av 3. 15th, 1846.

ITTLE MIAMI RAILROAD COMPANY
Fall and Winter Arrangement, 1847. On an
after Monday, September 20th,
until further notice, a Passenger

until further notice, a Passenger train will run as folkwa:

Leave Cincinnati daily at 9 A. M., for Milford Foster's Crossing, Deerfield, Morrow, Fort Ancient Freeport, Waynesville, Spring Valley, Kenia, Yellow Springs, and Springfield. Returning, will leave Springfield at 44 a.m. Upward train arrives at Springfield at 24 p.m. Downward train arrives at Cincinnati at 104 a.m.

Cincinnati at 104 a.m.

Freight trains will run each way daily.

Messrs. Neil, Moore & Co. are running the following stage lines in connection with the road:

A daily line from Xenia to Columbus and Wheeling, carrying the great Eastern mail.

Daily lines from Springfield to Columbus, Zane ville and Wheeling. Also to Urbana and Belfelotaine. taine.

A line of Hacks runs daily in connection the train between Deerfield and Lebanon.

Passengers leaving for New York and Boston, a rive at Sandusky city via Urbana, Bellefontaine the Mad River and Lake Eric railroad, in 27 hour including several hours sleep at Bellefontaine. I the same point via Columbus, Delaware, Mansile and the Mansfield and Sandusky city railroad, is hours. Distance from Cincinnati to Springfield railroad. 

The Passenger trains runs in connection Strader & Gorman's line of Mail Paskets to ville.

Tickets can be procured at the Broadwa Denoison House, or at the Depot of the Co on East Front street. Further information and through tickets

Passage—Savannah to Atlanta, \$10; Children, nder 12 years of age, half price,
Savannah to Macon, \$7.

To Goods consigned to the subscriber will be forwarded free of Commissions.
The company will not be responsible for bag beyond 50 dollars in value, unless the same rocked free of Commissions.

The company will not be responsible for bag beyond 50 dollars in value, unless the same rocked free of Commissions.

The company will not be responsible for bag beyond 50 dollars in value, unless the same of a passage for every \$500 in value over amount.

Savannah, At 3 15th, 1346.

RATER OF PREIGHT.	Metween Anguere	Between Charlesto
1st class. Boxes of Hats, Bonnets,	Sept Se	1 10
and Furnature, per cu-	90 18	80 28
84 class Boxes and Bales of Dry		
Goods, Sadlery, Glass,		
Paints, Drugs and Con-		
fectionary, per 100 lbs.		1 50
Id class Sugar, Coffee, Liquer,		
Bagging, Rope, Cotton Yarns, Tobacco, Lea-		电插纸
ther, Hides, Copper,		
Tin, Feathers, Sheet		
Iron, Hollow Ware,		
Castings, Crockery, etc.		0 85
4th class. Flour, Rice, Bacon, Pork,	建沙面	
Beef, Fish, Lard, Tal-	ESSE TO	
low, Beeswax, Bar Iron, Ginseng, Mill	St. 2 15 K	
Gearing, Pig Iron, and	1	
Grindstones, etc.	0 40	0 65
Cotton, per 100 lbe	0 45	0 7
Molasses, per hogshead.	8 50 9 50	13 50
Salt per bushel	0 18	3 35
Salt per Liverpool sack.		
Ploughs, Corn Shellers,		
Cultivators, Straw Cut-		11200
ters, Wheelbarrows	0 75	1 50

of Transportation.

WESTERN AND ATLANTIC road.—This Road is now in operation to a, a distance of 80 miles, and connects adays excepted) with the Georgia Rail

Kingston, on this road, there is a tri-week y tages, which leave on the arrival of the cars slay, Thursday and Saturday, for Warren-ntsville, Decatur and Tuscumbia, Alabama,

phis, Tennessee, nme days, the stages leave Oothcaloga nooga, Jasper, Murfreesborough, Knox-Vashville, Tennessee.

ditions route from the east to

CHAS. P. M. GARNETT, Atlanta, Georgia, April 16th, 1846 tv1

40 cm, per hundr

RAILROAD -184 SUMMER ARRANGEMENT.

On and after Monday, April 3d, the Mail Lines between Philadelphia and Baltimore will run as fol-lows, viz:

Per Philadelphia, Wilmington and Baltimore Railmond, via Chester, Wilmington, Newark, Elston, Harve de Grace, etc., will leave Philadelphia, from Depot, lith and Market streets, daily (except Sunday) at 84-A.M., and Baltimore from Depot, Pratt street, at 9 o'clock, A.M.

A Second Class Car will be run with the morning line. Fare, \$2.

Tickets must positively be procured at the Office for this car, at mone will be sold by the conductors.

AFTERNOON LINE.

Newcastle and Frenchtown, will leave Phila obert Morris, daily (except Sunday) at 21 P.M. ad Baltimore, from Bowly's Wharf, at 24 P.M.-

Supper provided on board the boat.

Per Philadelphia, Wilmington and Baltimore Rail-road, will leave Philadelphia, from depot, 11th and Market streets, daily, at 11 P.M., and Baltimore at 8 P.M.

WHEELING AND PITTABURG.
Tickets through to Wheeling or Pittsburg, can be procured at the depot, or on board of the steamboat.
Fare to Wheeling, \$13. Fare to Pittsburg, \$12.
The trains leave Baltimore for the west at 7 A.M. and 4 P.M.

ne only line for Baltimore on Sunday leaves the pot, 11th and Market streets, at 10 P.M.
Passengers for these lines must procure their Tickat the office before taking their seats in the cars.

NOTICE.-All Baggage by these lines is at its

apparsi. 50 the baggage allowed each passenger.

wilmington accommodation trains.

On and after Monday, April 3d, the Accommodation Trains, stopping at all the intermndiate places between Philadelphia and Wilmington, will leave as follows, viz:

Leave Philadelphia, from depot 11th and Market streets, daily (Sundays excepted) at 1½ and 4 P. M. Leave Wilmington, from the depot, Water street, daily (except Sunday) at 7½ A.M. and 4½ P.M.

The Freight Accommodation Train will leave Philadelphia at 7 P.M. and Wilmington at 7 P.M.

The Mail Trains stopping at Chester and Wilmington, leave Philadelphia at 8½ A.M. and 10 P.M. Wilmington at 1 o'clock, P.M., and 12 midnight.

Fare to Wilmington, 50 cts. Fare to Chester, 25 cts.

G. H. HUDDELL, Agent.

1y15

March 23, 1848.

INOTICE. A

Coing cast.

Leaves... Buffalo... 7† A.M... 2d train... 3d train.

Leaves... Buffalo... 7† A.M... 2 P.M... 2 P.M...

Pass... ... Rechemer 12† M.... 7 P.M. 12 M.N.

Pass... ... Auburn... 6† P.M... 1 A.M... 6 A.M.

Pass... ... Syracuse... 8† P.M... 2 A.M... 8 A.M.

Pass... ... Utica... 12 M.N. 7 A.M... 11 A.M.

Arrives at Albany... 5 A.M. 12 M... 4† P.M.

Adopted February 18, 1848, in convention at Albany... (Copy)... T. Y. Hove, Js.,

## RAIDROAD

PASSENGER, FREIGHT AND CRANK CARS

OF VARIOUS KINDS.

CAR WHEELS and AXLES fitted and furnishe at short notice; also, STEEL SPRINGS of various kinds; and SHAFTING FOR FACTURIES.

The above may be had aborder at our Car Fucior Rever Dean, ELHAR PACKSED, SPRINGFIELD, MASS. ISAAC MILLS, 1948

AP-WELDED WROUGHT IRON TUBES for Tubular Boilers, from 14 to 15 inches dia ufactured by the Caledonian Tube Comp w, and for sale by

IRVING VAN WART,

13 Platt street, New York.

JOR CUTLER, Patente
These Tubes are extensively used by the Brits
Government, and by the principal Engineers an
Steam Marine and Railway Companies in the King
dom.



No 23 Pear street, 1y10 near Third,

AMERICAN RAILROAD JOURNAL.

AMERICAN RAILROAD JOURNAL.

OPFICE AT THE FRANKLIN HOUSE,

105 Chesmut Street,
PHILADELPHIA, PA.

This is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in these undertakings. Hence it offers peculiar advantages for advertising times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

TERMS. - Five Dollars a year, in advance,

### RATES OF ADVERTISING

Committee of the Commit	Climita (Climita da Cari	THE RESERVE	TANKET	100000000000000000000000000000000000000	
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LETTERS and COMMUNICATIONS this Journal may be directed to the L